Kelly Ranch Habitat Conservation Area

Annual Report October 2004 - September 2005

Prepared for:
U.S. Fish and Wildlife Service
California Department of Fish and Game
City of Carlsbad

Prepared by:



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I. Introduction

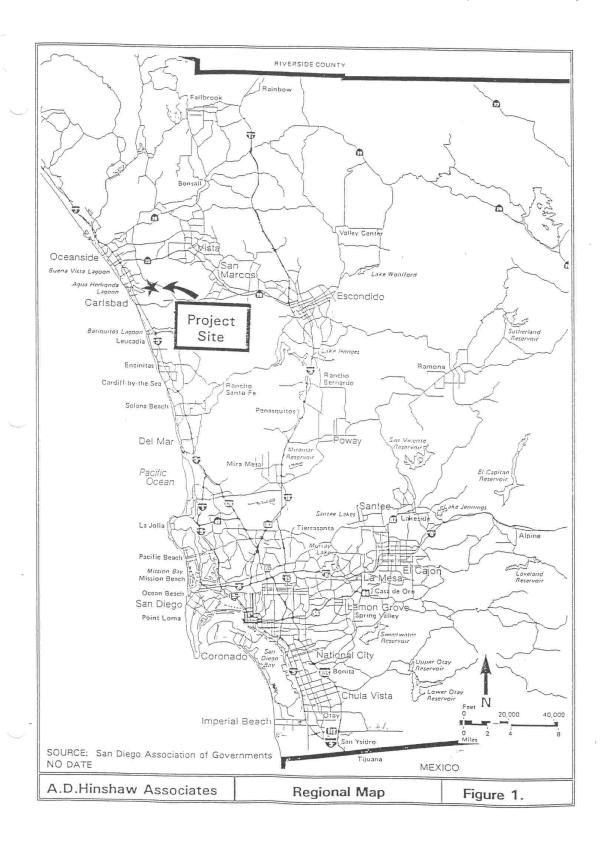
This report summarizes the management activities carried out on the Kelly Ranch Habitat Conservation Area by the preserve manager during the fiscal year of October 1, 2004 to September 31, 2005. The tasks and objectives discussed below are those derived from the *Kelly Ranch Habitat Conservation Area Management Plan*, prepared by the Center for Natural Lands Management (Center) in November of 2003.

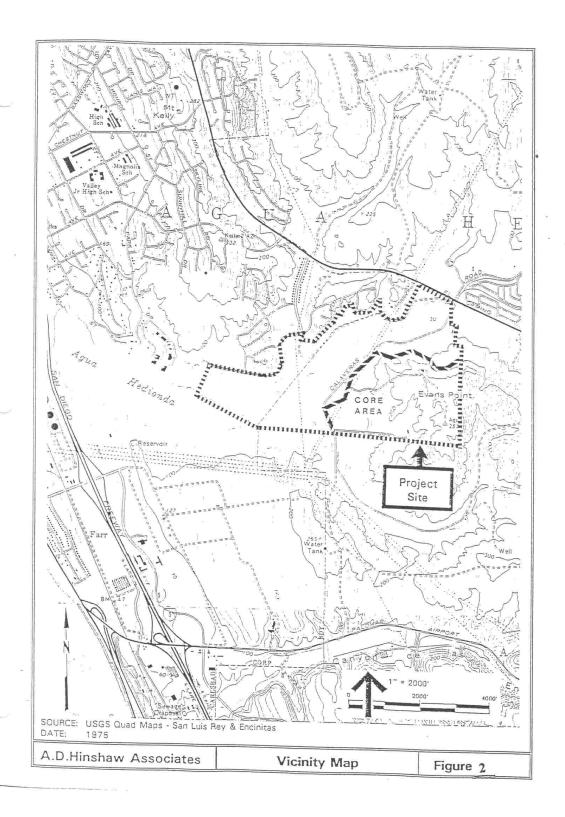
Kelly Ranch is located approximately 1 to 2 miles inland from the Pacific Ocean and lies at the east end of Agua Hedionda Lagoon (Figure 1 and 2). Roads near the Preserve include Cannon Road along the western boundary and Faraday Avenue near its southern boundary. The Preserve (63 acres) is not one unit, but is made of multiple parcels varying in size from a few acres to about 15 acres that are located within the housing development of Kelly Ranch and surrounding communities (Figure 3). Most of the area of the Preserve and adjacent land was formerly known as Evans Point. The site was set aside to protect its habitat, coastal sage scrub and southern maritime chaparral, and the threatened coastal California gnatcatcher (*Polioptila californica californica*).

The Center for Natural Lands Management began managing Kelly Ranch Habitat Conservation Area in March of 2002. The Center has a conservation easement over the property and is fully endowed for long-term management. Management at the Preserve includes signing and maintaining fences (capital improvements), biological surveys, habitat restoration, public services and reporting. Each of these activities and their fiscal year results are summarized below and fully described within this report.

ACTIVITY SUMMARY

- Two pair of coastal California gnatcatchers were detected.
- Growth and status of the 100 Orcutt's hazardia that were planted near Cannon Road was monitored.
- Regular patrol, site enforcement and trash pickup was conducted to protect the Preserve.
- Vegetation communities were assessed using CNPS Rapid Assessment protocols.
- Non-native species were removed as necessary.
- Restoration was coordinated with CDF&G and Planning Systems, Inc.







Sensitive species observed in 2005

- Coastal California gnatcatcher-pair
- Coastal California gnatcatcher-junvenile
- Cooper's hawk
- HCA boundary
- CNPS Rapid Assessment Polygon

0 95 190 380 Meters



Figure 3

Sensitive Species and CNPS Assessment Polygons

II. Capital Improvements

The site has been well signed and no additional signing, gating or fencing was required or planned during the year.

III. Biological Surveys

Year 2003 was the first year of biological surveys carried out by the Center. Year 2004 built upon the 2003 surveys and laid groundwork for 2005 surveys. The *Management Plan* outlines the goals of biological monitoring at the Preserve. The general goal of the monitoring activities at Kelly Ranch is to 1) collect inventory data and 2) to assess the "health" of the vegetation community. Since the site is relatively small, steep and fragmented, little research can be done on the property.

Monitoring at this time includes plant surveys, bird community surveys and directed searches for coastal California gnatcatcher (CAGN, *Polioptila californica californica*). Non-avian animal species are noted anecdotally during other types of surveys.

Table 1. 2005 Biological Surveys (Varanus Biological Services)

Date Time		Weather	Survey Type	
May 24, 2005	06:20 - 9:00	Overcast, calm, 65°F	Bird Community, CAGN	
June 7, 2005	06:10 - 9:40	Clear, 0-3 mph wind, 60-67 °F	Bird Community, CAGN	
June 20, 2005	06:20 - 08:50	Clear, calm, 58-63 °F	Bird Community, CAGN	

^{*} CAGN = Directed survey for coastal California gnatcatcher

Table 1 outlines survey dates, times, weather conditions and type of survey conducted. Focused CAGN surveys were conducted by Kylie Fisher at Varanus Monitoring Services who holds a separate USFWS permit authorizing her for such surveys. Results of surveys are provided in the following sections.

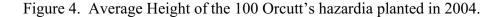
1. Reptiles and Amphibians. Reptiles and amphibians were noted anecdotally during surveys for other taxa. No focused surveys were conducted. Species detected during the year include western fence lizards (*Sceloporus occidentalis*), alligator lizard (*Elgaria multicarinata webbi*) and side-blotched lizard (*Uta stansburiana*).

- **2. Mammals.** No focused mammal surveys were conducted during the year. Mammals observed during surveys include cottontail rabbit (*Sylvilagus audubonii*), California ground squirrel (*Spermophilus beecheyi*) and racoon (tracks, *Procyon lotor*).
- **3. Birds**. Avian monitoring was conducted during the months of April and May on three separate days (Table 1). Surveys include meandering through the property noting species observed and conducting focused USFWS protocol survey for CAGN.

Two pair of CAGN were observed during surveys, using the "middle" portion of the HCA (Figure 3). In prior years, they were observed near Cannon road. In addition, one pair was observed with several junveniles. A Cooper's hawk (*Accipiter cooperii*) was also observed.

4. Plants and Vegetation Community. The Center updated the plant species list for the preserve in 2003. The survey noted and mapped sensitive species. A list of sensitive species observed and their abundances is provided in Table 2 and is scheduled for update in 2008. These species are mapped within the 2002-3 annual report. No focused plant surveys were conducted during this fiscal year.

Orcutt's hazardia. The Center owns the only extant population of Orcutt's hazardia (OH, *Hazardia orcuttii*) located within the Manchester Habitat Conservation Area. In the spring of 2003, the Center planted 25 individual *H. orcuttii* at Kelly Ranch, just off Cannon Road. In the spring of 2004, the Center planted 100 OH within the same area as 2003. Habitat and soils in this area is similar to Manchester as is its vicinity to the coast and coastal habitats. By the summer of 2005, 97 OH had survived. Measurements of 60 plants are being taken as part of the Center's MOU concerning this planting effort (Figure 4). Data has been submitted to both the USFWS and CDFG. OH look very healthy and many were flowering at the time of the surveys.



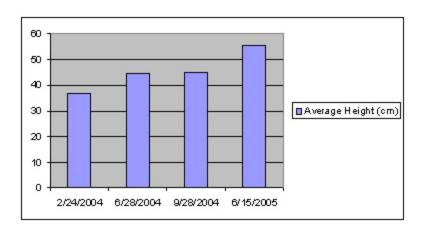


Table 2. Sensitive Plant List

Name and Sensitivity	1998 (Merkel & Associates)	2003	Notes
California adolphia (Adolphia californica) CNPS List 2	"Several hundred"	24	Next survey in 2008
Del Mar manzanita (Arctostaphylos glandulosa ssp. crassifolia) FE, CNPS List 1B, MHCP.	29 (probably spp. zacaensis)	<50 located in dense habitat and difficult to count	Next survey in 2008
Wart-stemmed ceanothus (Ceanothus verrucosus) CNPS List 2, MHCP	"in the hundreds"	9	Next survey in 2008
Small-flowered microseris (Microseris douglasii) CNPS List 4	20	not found, probably impacted by development	
Prostrate spineflower (Chorizanthe procumbens) CNPS List 4	??? ("loss of majority of population" due to construction)	not found, probably impacted by development	
Western dichondra (Dicondra occidentalis) CNPS List 4	unknown	common	Next survey in 2008
Palmer's grapplinghook (<i>Harpagonella palmeri</i>) CNPS List 2	???	Approximately 400	Next survey in 2008
Orcutt's hazardia (Hazardia orcuttii) CT, MHCP	none	25 (transplanted from the Manchester Habitat Conservation Area)	Of 125 planted in 2003-4, 97 were found alive in 2005
Nuttal's scrub oak (Quercus dumosa) MHCP, CNPS List 1B	??? ("lightly scattered")	common	Next survey in 2008
Cliff spurge (Euphorbia misera) MHCP, CNPS List 2	"one thicket"	3	Next survey in 2008
Ashy-spike moss (Selaginella cinerascens) CNPS List 4	???	common	

^{*} FE= Federally listed endangered; CT= California threatened; MHCP= Mutiple Habitat Conservation Program Covered Species; CNPS= California Native Plant Society; ???= no initial count made during planning process.

The Center employed the CNPS Rapid Assessment protocol (February 5, 2003 forms) to characterize each vegetation community within the preserve. Although a more quantitative approach is preferred, the site's terrain is too steep or vegetation too dense in most areas to set up a permanent transect program. The Center assigned polygons to each parcel (or vegetation community within each parcel) and filled out the Assessment form according to the rules established by CNPS. Polygon location are shown in Figure 3 and results are provided in Appendix 1.

In general the vegetation communities on the property of our very high quality, except for the parcel located west of Cannon Road, which is being restored by Planning Systems as part of the Kelly Ranch Development requirements.

IV. Habitat Maintenance

Habitat restoration goals for the preserve include removing non-native plants from the preserve. For the most part the Preserve is in good condition and has little non-native plant cover. In 2005, we removed about 5 fennel (*Foeniculum vulgare*) clumps, and treated a few saltcedar (*Tamarisk spp*) resprouts in the detention basin on Cannon west of Hemmingway Avenue. Several pampas grass (*Cortaderia selloana*) clumps were treated along Hemmingway Avenue behind the development near Frost Avenue. Planning Systems has started its revegetation program that will end in about 4 years. This includes enhancing habitat west of Cannon Road and along manufactured slopes within the development.

V. Public Service

Public service activities have centered on patrolling the preserve in an attempt to control dumping and associated vandalism. In addition, public services include trash pick up and meeting with neighboring home owners who have questions or concerns in regards to the HCA.

At this time there are few problems at the preserve. At times there is sign of vagrants living in shacks near the southern boundary of the preserve, but we have cleared old shacks and all debris and have not observed any new shacks recently.

VI. Reporting

Encompassed within the heading of reporting are all data analysis, GIS and remote sensing, meetings and regional coordination, photo documentation activities and budget and financial status.

Data that has been entered into digital databases include bird count and plant list data. Data on preserve boundary and sensitive species locations have been entered into a GIS database. This report represents the third annual report for this preserve. An annual work plan for the next fiscal year will be provided to the wildlife agencies in December of 2005.

Finally, the Preserve manager has maintained all necessary agency permits to allow the continued monitoring of the Preserve's biota.

Budget/Financials: The total expenditures for 2004-5 were \$13,130 of a planned budget of \$13,342. The total funds available (September 30, 2005), including endowment and temporarily restricted funds, are \$367,250.

VII. Summary and Discussion

Management at Kelly Ranch continues to be successful at protecting the Preserve from human encroachment, building baseline biological data, and developing a better understanding of the Preserve and its regional context. Preserve Management in next year will continue in a similar fashion as this year. A detailed work plan for the next fiscal year has been developed for this purpose.

Appendices

Appendix 1. CNPS Rapid Assessment Forms

For Office Use:	Final database #:	Final vegetation type name:	Alliance Association
LOCATIONAL/E	NVIRONMENTAL E	Annual Control of the	Association
Polygon/Stand #:		Date: Na	ne(s) of surveyors: barkus Spiegel Derg-CNLM
GPS waypoint #:	GPS nam		GPS datum: (NAD 27) Is GPS within stand? Yes / No
If No cite distance	(note ft/m), bearing a	nd view from point to s	rand center: Error: ± ft/m
UTM field reading	g: UTME	UT	MN UTM zone:
	ft/m Photogra		
Topography: flat_			g bottom lower mid upper top
Geology:			% Large Rock % Small Rock % Bare/Fines
			SE SWNW Flat Variable_
Slope steepness (ci	ircle one and enter actu	al °): 0°1-5°	5-25° > 25° Upland or Wetland/Riparian (circle one)
Market C	age, and comments:	Site manage native, high	d by CNEM since 2002, stand within Kelly Bauch
VEGETATION D			
		: Diegan Con	stal Souge Erub
	ociation name (options		
Size of stand: <1 a	icre 1-5 acres	>5 acres Adjacent	alliances:
-			
Herbaceous: HI Desert Riparian T % Overstory Con	<12" plant ht.), H2 (>1. Pree/Shrub: 1 (<2ft. ste ifer/Hardwood Tree c	2" ht.) Desert Palm ht.), 2 (2-10ft. ht.), 3 over: / Shri	(1-25% dead), S4 decadent (>25% dead) n/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.) (10-20ft. ht.), 4 (>20ft. ht.) ab cover: 85% Herbaceous cover: 50% Total Veg cover: 60% over the beight: 4m / 1m Herbaceous height: 4m.5 m
			te % cover: (Jepson Manual nomenclature please)
M Artemisi	a californica	% cover 25-50	or reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%
	integrifolia	25-50	
	mellitera Californica	15-25	
4 4 4	Dylchra	5-15	
	om tacciculat		
Major non-native): Tree tobacco	< 1%
Unusual species:			
	TH INTERPRETATION	1.	T I II
Confidence in ide	ntification: (L, M, H)	L Explain	
	on problems (describe	-	
Polygon is more to Other types:	han one type: (Yes, Ne	(Note: type	with greatest coverage in polygon should be entered in above section)
-			TONE OF THE PROPERTY OF THE PR
mas the vegetation	n cnanged since air ph	oto taken? (Yes No) _	If Yes, how? What has changed (write N/A if so)?

	Final database #:	Final vegetation type		
LOCATIONALE	NVIRONMENTAL I	name:	Association	
Polygon/Stand #:	1	Date: No.	ne(s) of surveyors:	
2	1	7-15-05	Markus Spiegelberg	
GPS waypoint #:			GPS datum: (NAD 27) Is GPS within stand	
If No cite distance	(note ft/m), bearing a	and view from point to s	and center: Error:	±ft/m
UTM field reading	g: UTME	UT	MNUTM zone:	
	ft/m Photogra			
			g bottom_xlower_x mid_x upper_	
			% Large Rock % Small Rock % Bare	/Fines
			SE SW NW_X Flat_	Variable_
Slope steepness (c	ircle one and enter actu	nal °): 0° 1-5°	5-25° > 25° Upland or Wetland/Riparia	an (circle one
Site history, stand	age, and comments:	Site managed nature, high & Area	by CNLM Since 2002, star	nd Panch
	urbance (use codes):			
VEGETATION D				
Field-assessed veg	etation alliance name	: Diegan Coa	stal Sage Scrub	
	ociation name (option			
Size of stand: <1 :	icre 1-5 acres	>5 acres X Adjacen	alliances:	
If Tree, list 1-3 do Shrub: S1 seedlin	minant overstory spp g (<3 yr. old), S2 your	o.:), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T (1-25% dead), <u>S4</u> decadent (>25% dead)	
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If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H Species (List up to Strata categories: trata Species A Flem Facel Nasyl Facel Major non-native Unusual species:	minant overstory spp g (<3 yr. old), (\$\frac{1}{2}\text{ your} <12" plant ht.), \text{ H2} (>1 "ree/Shrub: \(\frac{1}{2}\text{ (<2ft, sto ifer/Hardwood Tree of ardwood height: \(\frac{1}{2}\text{ major species}\), \(\frac{1}{2}\text{ major species}\		(1-25% dead), S4 decadent (>25% dead) n/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), (10-20fl. ht.), 4 (>20fl. ht.) the cover: \[\sigma \cdot \] Herbaceous cover: \[\sigma \sigma \cdot \] Total Veg w Shrub height: \[\sigma \cdot \] Herbaceous height: te % cover: (Jepson Manual nomenclature please) for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >5 Strata Species	3 (>6" diam.) cover: 10 0 7
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T) % Overstory Con Modal Conifer/H- Species (List up to Strata cafeories: trata Species T	minant overstory spp g (<3 yr. old), (\$\sum_{2}\$ your <12" plant ht.), \(\frac{H2}{2}\) (<2ff. sto ifter/Hardwood Tree ardwood height: 12 major species), S T-tall, M=medium, L- \$\sin_{1}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) Mell: \(\frac{f_{1}}{2}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) \(\sin_{1}\) (\sin_{1}\) (\sin	Desert Palice Desert Palice	(1-25% dead), S4 decadent (>25% dead) n/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), (10-20fl. ht.), 4 (>20fl. ht.) the cover: \[\sigma \cdot \] Herbaceous cover: \[\sigma \sigma \cdot \] Total Veg w Shrub height: \[\sigma \cdot \] Herbaceous height: te % cover: (Jepson Manual nomenclature please) for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >5 Strata Species	3 (>6" diam.) cover: 10 0 7
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species A A Term T	minant overstory spp g (<3 yr. old), (\$\frac{1}{2}\text{ your} <12" plant ht.), \(\frac{12}{2}\text{ your} <12" plant ht.), \(\frac{12}{2}\text{ so}\) ifer/Hardwood Tree cardwood height: 12 major species), S T-tall, M-medium, L- \$\frac{1}{2} to		(1-25% dead), S4 decadent (>25% dead) n/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), (10-20fl. ht.), 4 (>20fl. ht.) the cover: \[\sigma \cdot \] Herbaceous cover: \[\sigma \sigma \cdot \] Total Veg w Shrub height: \[\sigma \cdot \] Herbaceous height: te % cover: (Jepson Manual nomenclature please) for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >5 Strata Species	3 (>6" diam.) cover: 10 0 7
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Artem T Phus M Eaceli L Nasyl M Erroge Major non-native Unusual species: PROBLEMS WF Confidence in ide	minant overstory spp g (<3 yr. old), (\$\sum_{2}\$ your <12" plant ht.), \(\frac{H2}{2}\) (<2ff. sto ifter/Hardwood Tree ardwood height: 12 major species), S T-tall, M=medium, L- \$\sin_{1}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) Mell: \(\frac{f_{1}}{2}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) (\sin_{1}\) \(\sin_{2}\) (\sin_{1}\) \(\sin_{1}\) (\sin_{1}\) (\sin		(1-25% dead), S4 decadent (>25% dead) n/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), (10-20fl. ht.), 4 (>20fl. ht.) the cover: \[\sigma \cdot \] Herbaceous cover: \[\sigma \sigma \cdot \] Total Veg w Shrub height: \[\sigma \cdot \] Herbaceous height: te % cover: (Jepson Manual nomenclature please) for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >5 Strata Species	3 (>6" diam.) cover: 10 0 7
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to	minant overstory spp g (<3 yr. old), (\$\sum_{\text{2}}\text{your} <12" plant ht.), \(\frac{H2}{2}\text{ (<2ft. sto}\) ifer/Hardwood Tree cardwood height: 12 major species), S T-tall, M-medium, L- \$\sum_{\text{2}}\text{1 fina}\) \$\mathred{M-ell:} fina		(1-25% dead), S4 decadent (>25% dead) n/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), (10-20fl. ht.), 4 (>20fl. ht.) the cover: \[\sigma \cdot \] Herbaceous cover: \[\sigma \sigma \cdot \] Total Veg w Shrub height: \[\sigma \cdot \] Herbaceous height: te % cover: (Jepson Manual nomenclature please) for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >5 Strata Species	3 (>6" diam.) cover: 10 % 0-75%, >75% % cov
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to	minant overstory spp g (<3 yr. old), (\$\sum_{\text{2}}\text{your} <12" plant ht.), \(\frac{H2}{2}\text{ (<2ft. sto}\) ifer/Hardwood Tree cardwood height: 12 major species), S T-tall, M-medium, L- \$\sum_{\text{2}}\text{1 fina}\) \$\mathred{M-ell:} fina		(1-25% dead), S4 decadent (>25% dead) n/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), (10-20ft. ht.), 4 (>20ft. ht.) ub cover: OF Herbaceous cover: Total Veg ow Shrub height: Sm/ M Herbaceous height: te % cover: (Jepson Manual nomenclature please) for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >56 Strata Species	3 (>6" diam.) cover: 10 % 0-75%, >75%

LOCATIONAL/E Polygon/Stand #:		Final vegetation	type	Alliance		
	NVIDONMENTAL	name:		Association		
		DESCRIPTION Date:	Name	(s) of surveyors		
3		7-15-05	M	(s) of surveyors: lackus Spirgel	hery	
GPS waypoint #:				S datum: (NAD 27)		
If No cite distance	(note ft/m), bearing	and view from poin	t to star	nd center:	Erro	r: ± ft/m
UTM field reading	: UTME		UTM	N	UTM zone:	
Elevation:	ft/m Photogra	iph #'s:				
Topography: flat_	concave	convex undu	lating_	bottom lower_	mid uppe	rtop
Geology:	Soil Text	ture:	%	Large Rock % Sm	all Rock % Ba	are/Fines
Slope exposure (ci	rcle one and/or enter a	ectual °): NE	_ SE	sw	NW_ Flat_	Variable_
Slope steepness (ci	rcle one and enter act	ual °): 0°_ 1-5°_	5-	25° > 25° Upl	and or Wetland/Ripa	rian (circle one)
Site history, stand	age, and comments:	Ecotone CNLM's	tiel	ature high que by Ranch Habita	Conservation	Area
	urbance (use codes):					
VEGETATION D		/ .\			. 1	
-			10 0	naritime chapm	119	
	ociation name (option	· -				
Size of stand: <1 a	cre 1-5 acres X	>5 acres Adj	acent a	lliances:		
If Tree, list 1-3 do Shrub: S1 seedlin	minant overstory spi	ng (<1% dead) S3)	nature (1-	<u>T5</u> (>24" dbh), <u>T6</u> multi-lay -25% dead), <u>S4</u> decadent (>2 Joshua Tree : <u>1</u> (<1.5" base of	5% dead)	
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con	minant overstory spi g (<3 yr. old), <u>S2</u> your <12" plant ht.), <u>H2</u> (> 'ree/Shrub: 1 (<2ft. st ifer/Hardwood Tree	ng (<1% dead) S3 nc 12" ht.) Deser em ht.), 2 (2-10ft. ht.	nature (1- t Palm/.	25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base (0-20ft. ht.), 4 (>20ft. ht.) cover: 757 Herbaceous	5% dead) filameter), 2 (1.5-6" diam cover: Total V	n.), <u>3</u> (>6" diam.)
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H:	minant overstory spi g (<3 yr. old), <u>S2</u> your <12" plant ht.), <u>H2</u> (> 'ree/Shrub: 1 (<2ft. st ifer/Hardwood Tree ardwood height:	ng (<1% dead) S3 de 12" ht.) Deser em ht.), 2 (2-10ft. ht. cover:/ Tall Shr	t Palm/, .), 3 (10 Shrub	25% dead), <u>S4</u> decadent (>2 Joshua Tree: <u>1</u> (<1.5° base of 0-20fl. ht.), <u>4</u> (>20fl. ht.) cover: <u>75</u> CHerbaccous of Shrub height: <u>3</u> m /] w	5% dead) fiameter), 2 (1.5-6" diam cover: Total V Herbaceous heig	n.), <u>3</u> (>6" diam.)
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to	minant overstory spi g (<3 yr. old), <u>S2</u> your <12" plant ht.), <u>H2</u> (> 'ree/Shrub: 1 (<2ft. st ifer/Hardwood Tree ardwood height:	ng (<1% dead) S3 to 12" ht.) Deser em ht.), 2 (2-10ft. ht. cover:/ Tall Shr	t Palm/, .), 3 (10 Shrub rub/Low	25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft. ht.), 4 (>20ft. ht.) cover: 75 (Alerbaceous of Shrub height: 3 m / 1 m) % cover: (Jepson Manual r	5% dead) fiameter), 2 (1.5-6" diameter), 2 (1.5-6" diameter) Cover: Total V Herbaceous heiginomenclature please)	(eg cover:ht:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories:	minant overstory spi g (<3 yr. old), <u>S2</u> your <12" plant ht.), <u>H2</u> (> 'ree/Shrub: 1 (<2ft. st ifer/Hardwood Tree ardwood height:	ng (<1% dead) 12" ht.) Deser em ht.), 2 (2-10ft. ht. cover:/	t Palm/, t Palm/,), 3 (10 Shrub Tub/Low Tub/Low Tub/Low Tub/Low	25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft. ht.), 4 (>20ft. ht.) cover: 75 (Herbaccous of Shrub height: 3 m / 1 m cover: (Jepson Manual of reference: <1%, 1-5%, >5-15	5% dead) fiameter), 2 (1.5-6" diameter), 2 (1.5-6" diameter) Cover: Total V Herbaceous heiginomenclature please)	eg cover:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1) Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species	minant overstory spi g (<3 yr. old), <u>S2</u> your <12" plant ht.), <u>H2</u> (> free/Shrub: 1 (<2 ft. st ifer/Hardwood Tree ardwood height: b 12 major species), S T=tall, M=medium, L	ng (<1% dead) S3 oct 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro=	t Palm/, .), 3 (10 Shrub rub/Low	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft, ht.), 4 (>20ft, ht.) cover: 75 (44erbaceous y Shrub height: 3 m /] w % cover: (Jepson Manual r reference: <1%, 1-5%, >5-15 [Strata] Species	5% dead) fiameter), 2 (1.5-6" diameter), 2 (1.5-6" diameter) Cover: Total V Herbaceous heiginomenclature please)	(eg cover:ht:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species IV	minant overstory spi g (<3 yr. old), S2 your <12" plant ht.), H2 (> 'ree/Shrub: 1 (<2ft. st ifer/Hardwood Tree ardwood height:	ng (<1% dead) S3 nc 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro=low: % cover into:	shrub/Low eximate	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft. ht.), 4 (>20ft. ht.) cover: 75 (4 Herbaceous of Shrub height: 3 m / 1 m % cover: (Jepson Manual r reference: <1%, 1-5%, >5-15 Stryal Species	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh comenclature please) 5%, >15-25%, >25-50%,	eg cover:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1) Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species IN Access Au	minant overstory spi g (<3 yr. old), S2 your <12" plant ht.), H2 (> free/Shrub: 1 (<2ft. st ifer/Hardwood Tree ardwood height: b 12 major species), S T=tall, M=medium, L-	ng (<1% dead) S3 to 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro=low: % cover inter	shrub/Low eximate rvals for cover	Joshua Tree: 1 (<1.5" base of 0-20ft. ht.), 4 (>20ft. ht.), cover: 75 (44erbaceous / Shrub height: 3 m / 1 m / 2 cover: (Jepson Manual reference: <1%, 1-5%, >5-15 (15 cover), 1-5%, 1-5%, >5-15 (15 cover), 1-5%, >5-15 (15 cover), 1-5%, >5-15 (15 cover), 1-5%, >5-15 (15 cover), 1-5%, 1-5%, >5-15 (15 cover), 1-5%, 1-5%, >5-15 (15 cover), 1-5%,	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh comenclature please) 5%, >15-25%, >25-50%, Coscie. lature	eg cover:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Actus Au	minant overstory spig (<3 yr. old), S2 your <12" plant ht.), H2 (>12" plant ht.); H2 (<2ft. st ifter/Hardwood Tree ardwood height: 12 major species), ST=tall, M=medium, L-14s, S and loso	ng (<1% dead) S3 to 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro=low: % cover inter	t Palm/). 3 (10 Shrub/Low eximate reals for cover 5-25-	Joshua Tree: 1 (<1.5" base of 0-20ft. ht.) 4 (>20ft. ht.) cover: 75 Herbaceous % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Species MA Aremicia of MA Yucca Sch	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh comenclature please) 5%, >15-25%, >25-50%, Coscie. lature	eg cover:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Actus Au	minant overstory spig (<3 yr. old). S2 your <12" plant ht.), H2 (>12" plant ht.); H2 (<2ft. st ifter/Hardwood Tree ardwood height: 12 major species), S T=tall, M=medium, L 13 y 2 and loso 14 a 2 iferne.	ng (<1% dead) S3 to 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro=low: % cover inter	shrub/Low eximate rvals for cover	Joshua Tree: 1 (<1.5" base of 0-20ft. ht.) 4 (>20ft. ht.) cover: 75 Herbaceous % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Species MA Aremicia of MA Yucca Sch	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) 5%, >15-25%, >25-50%, forcial latura interpretation	eg cover:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: Trata Species M Acado M	minant overstory spig (<3 yr. old). S2 your <12" plant ht.). H2 (>12" plant ht.). H2 (>12" plant ht.). L2 (<2ft. st ifer/Hardwood Tree ardwood height:	ng (<1% dead) S3 to 12" ht.) Deser eem ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro=low: % cover inte	ature (1- t Palm/). 3 (10 Shrub/Low eximate rvals for cover 5-25	Joshua Tree: 1 (<1.5" base of 0-20ft. ht.) 4 (>20ft. ht.) cover: 75 Herbaceous Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia of M Yucca Sch	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) 5%, >15-25%, >25-50%, forcial latura interpretation	2 2 2 2 2 2 2 2 2 2
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1) Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: Trata Species M Archista M Archista M Archista M Archista M Archista M Salvia	minant overstory spig (<3 yr. old). S2 your <12" plant ht.), H2 (> tree/Shrub: 1 (<2 ft. st ifer/Hardwood Tree ardwood height: 12 major species), S T=tall, M=medium, L **Thank of a second a loss of a liferine. In teasifalia The life a life a limit of the life a life a life.	ng (<1% dead) S3 to 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro-low: % cover inter/ [% S55	shrub/Low eximate rvals for cover	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft, ht.), 4 (>20ft, ht.) cover: 75/4 Herbaceous % Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia (M Yucca Sch W Quercus M Aylo coccus M Hereconcle	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) 5%, >15-25%, >25-50%, Coscio lature internica internica internica bicole(herbeconses	2 2 2 2 2 2 2 2 2 2
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1) Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Archista M Archista M Archista M Archista M Salvia M Salvia	minant overstory spig (<3 yr. old). S2 your <12" plant ht.). H2 (>12" plant ht.). H2 (>12" plant ht.). L2 (<2ft. st ifer/Hardwood Tree ardwood height:	ng (<1% dead) S3 to 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro-low: % cover inter/ [% S55	shrub/Low eximate rvals for cover	Joshua Tree: 1 (<1.5" base of 0-20ft. ht.) 4 (>20ft. ht.) cover: 75 Herbaceous Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia of M Yucca Sch	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Merbaceous heigh comenclature please) 5%, >15-25%, >25-50%, for cic. lature collectionica diagera bicole (2 2 2 2 2 2 2 2 2 2
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1) Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Ards Au M Phue M Salvia M Major non-native	minant overstory spig (<3 yr. old), \$\frac{S2}{2}\$ your <12" plant ht.), \$\frac{H2}{2}\$ (>2 ft. st ifer/Hardwood Tree ardwood height: 12 major species), \$\frac{T}{2}\$ tall, \$M\$-medium, \$L\$ 13 your fasciculations of a firmer integrible ard loss of the second of the s	ng (<1% dead) S3 to 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:/ Tall Shr stratum, and Appro-low: % cover inter/ [% S55	shrub/Low eximate rvals for cover	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft, ht.), 4 (>20ft, ht.) cover: 75/4 Herbaceous % Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia (M Yucca Sch W Quercus M Aylo coccus M Hereconcle	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) 5%, >15-25%, >25-50%, Coscio lature internica internica internica bicole(herbeconses	2 2 2 2 2 2 2 2 2 2
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1) Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Adul h M Phue M Salvia M Adul h M Salvia M Major non-native Unusual species:	minant overstory spig (<3 yr. old). S2 your <12" plant ht.), H2 (> free/Shrub: 1 (<2 ft. st ifer/Hardwood Tree ardwood height: 12 major species), ST = tall, M=medium, L- That fascic latter spid formed in the spid formed	Description	shrub/Low eximate rvals for cover	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft, ht.), 4 (>20ft, ht.) cover: 75/4 Herbaceous % Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia (M Yucca Sch W Quercus M Aylo coccus M Hereconcle	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) 5%, >15-25%, >25-50%, Coscio lature internica internica internica bicole(herbeconses	2 2 2 2 2 2 2 2 2 2
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to S	minant overstory spig (<3 yr. old), \$\frac{S2}{2}\$ your <12" plant ht.), \$\frac{H2}{2}\$ (>2 ft. st ifer/Hardwood Tree ardwood height:	Signature Sign	t Palm/), 3 (10 . Shrub/Low ximate rvals for cover 5.25 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft, ht.), 4 (>20ft, ht.) cover: 75/4 Herbaceous % Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia (M Yucca Sch W Quercus M Aylo coccus M Hereconcle	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) 5%, >15-25%, >25-50%, Coscio lature internica internica internica bicole(herbeconses	2 2 2 2 2 2 2 2 2 2
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: Strata Species M Adul M M Phase M Salvia M Major non-native Unusual species: PROBLEMS WI Confidence in ide	minant overstory spig (<3 yr. old), \$\frac{S2}{2}\$ your <12" plant ht.), \$\frac{H2}{2}\$ (<2 ft. st ifer/Hardwood Tree ardwood height: 12 major species), \$\frac{T}{2}\$ tall, \$M\$-medium, \$L\$ 13 s \$\frac{T}{2}\$ and \$\frac{T}{2}\$ s \$\frac{T}{2}\$ and \$\frac{T}{2}\$ s \$\frac{T}{2}\$ s \$\frac{T}{2}\$ and \$\frac{T}{2}\$ s \$\fr	Construction Cons	t Palm/), 3 (10 . Shrub/Low ximate rvals for cover 5.25 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft, ht.), 4 (>20ft, ht.) cover: 75/4 Herbaceous % Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia (M Yucca Sch W Quercus M Aylo coccus M Hereconcle	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) 5%, >15-25%, >25-50%, Coscio lature internica internica internica bicole(herbeconses	2 2 2 2 2 2 2 2 2 2
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1) Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Sfrata categories: trata Species M Adul M Phase M Salvia Major non-native Unusual species: PROBLEMS WI Confidence in ide	minant overstory spig (<3 yr. old), \$\frac{S2}{2}\$ your <12" plant ht.), \$\frac{H2}{2}\$ (>2 ft. st ifer/Hardwood Tree ardwood height:	Construction Cons	t Palm/), 3 (10 . Shrub/Low ximate rvals for cover 5.25 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft, ht.), 4 (>20ft, ht.) cover: 75/4 Herbaceous % Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia (M Yucca Sch W Quercus M Aylo coccus M Hereconcle	5% dead) fliameter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) 5%, >15-25%, >25-50%, Coscio lature internica internica internica bicole(herbeconses	2 2 2 2 2 2 2 2 2 2
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: Strata categories: Strata categories: Major non-native Unusual species: PROBLEMS WI Confidence in ide Other identificati	minant overstory spig (<3 yr. old), \$\frac{S2}{2}\$ your <12" plant ht.), \$\frac{H2}{2}\$ (<2 ft. st ifer/Hardwood Tree ardwood height: 12 major species), \$\frac{T}{2}\$ (major species), \$	mg (<1% dead) S3 or 12" ht.) Deser em ht.), 2 (2-10ft. ht cover:// Tall Shr dratum, and Appropriate the cover into/ [15] S5p Jane 1// [15] Score 1// [15] Som Jane 1// [15]	t Palm/), 3 (10 . Shrub rub/Low eximate rvals for cover 5-25 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	-25% dead), S4 decadent (>2 Joshua Tree: 1 (<1.5" base of 0-20ft, ht.), 4 (>20ft, ht.) cover: 75/4 Herbaceous % Shrub height: 3 m / 1 m % cover: (Jepson Manual reference: <1%, 1-5%, >5-15 Strata Species M Artemisia (M Yucca Sch W Quercus M Aylo coccus M Hereconcle	simeter), 2 (1.5-6" diam cover: Total V Herbaceous heigh nomenclature please) simple size size size size size fascic latur internica udigera bicolo s heteromules Evalyotes	2 2 2 2 2 2 2 2 2 2

For Office Use:	Final database #:	Final vegetati	on type	Allia	nce
LOCATIONAL/ENV	IRONMENTAL D	ESCRIPTION			
Polygon/Stand #: A	Air photo #:	Date: 7-15-05	Nam	e(s) of s	surveyors: We Spizgellterg
GPS waypoint #:	GPS name	e:			tm: (NAD 27) Is GPS within stand? Yes / No
If No cite distance (no	ote ft/m), bearing a	nd view from p	oint to sta	nd cent	ter: Error: ± ft/m
UTM field reading:	UTME		UTM	N	UTM zone:
Elevation:	ft/m Photograp	h #'s:			
					bottom × lower × mid × upper× top×
					Rock % Small Rock % Bare/Fines
Slope exposure (circle					
					> 25° \(Upland) or Wetland/Riparian (circle one)
Site history, stand ag	e, and comments:	Steep ?	Slape	of o.tet	high suglish habitat part
Type / level of disturb	pance (use codes):				
VEGETATION DES					
			n co	asta	I sage Scrub
Field-assessed associa					
Size of stand: <1 acre	1-5 acres :	>5 acres X A	djacent a	lliance	es:
If Tree, list 1-3 domin Shrub: <u>SI</u> seedling (< Herbaceous: <u>HI</u> (<12 Desert Riparian Tree % Overstory Conifer	ant overstory spp. 3 yr. old), \$\sum_2\$ young " plant ht.), \$\frac{H2}{5}\$ (>12 /Shrub: \$\frac{1}{1}\$ (<2ft. ster) /Hardwood Tree co	(<1% dead), <u>S3</u> "ht.) Des nht.), <u>2</u> (2-10ft.	mature (1 sert Palm/ ht.), 3 (1 Shrub	-25% de Joshua 0-20ft. h	24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) 24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) 25" dead), S4 decadent (>25% dead) 26" diam.), 3 (>6" diam.), 3 (>6" diam.) 26" diam.), 4 (>20ft. ht.) 26" deight: 5 m / 3 m Herbaceous height:
Species (List up to 12	major species), Str	atum, and App	roximate	% cove	er: (Jepson Manual nomenclature please)
Strata categories: T=t	all, M-medium, L=l				nce: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%
	egrifolia		% cover	Strata	Species % cove
M Artemisic	California	9	10		
	1 tascic-la	Yun	15		
11 Heterome	les heterone	205	5-15	-	
				-	
Major non-native spe	cies (with % cover):			
Unusual species:					
PROBLEMS WITH	INTERPRETATIO	N			
Confidence in identif	ication: (L, M, H)	& H Explai	n		
Other identification	problems (describe	:			
Polygon is more than Other types:	one type: (Yes/No) (No	ote: type w	ith grea	atest coverage in polygon should be entered in above section)
Has the vegetation ch	anged since of - b	nto tokon? (V-	60	**	6 Van bang Whathan band 16 in Mil 18
	anged since air pin	no taken: (1e:		_ 11	f Yes, how? What has changed (write N/A if so)?

	Final database #:	Final vegetation name:		liancesociation	
LOCATIONAL/E	NVIRONMENTAL I	DESCRIPTION			
Polygon/Stand #:	Air photo #:	Date:	Name(s)	f surveyors:	
GPS waypoint #:	GPS nan	ne:	GPS da	ntum: (NAD 27) ls GPS within stand?	Yes / No
If No cite distance	(note ft/m), bearing a	and view from poin	t to stand c	enter: Error: ±	
UTM field reading	g: UTME		UTMN	UTM zone:	
Elevation:	ft/m Photogra	ph #'s:			
Topography: flat_	concave	convex undu	lating	bottomlower mid upper	top
Geology:	Soil Text	ure:	% Lai	ge Rock % Small Rock % Bare/F	ines
				N 4	Variable
				> 25° Upland or Wetland/Riparian	
orope accepticas (c	nere one and enter actu	a). 0 _ 1-3 _		23 Chiand of Wetland/Riparian	(circle one)
Site history, stand	age, and comments:				
Type / level of disa	turbance (use codes):				
VEGETATION D	ESCRIPTION				
Field-assessed veg	etation alliance name	: Diogon	Coas	tal sage scrub	
Field-assessed ass	ociation name (options	al):			
Size of stand: <1 a	icre l-5 acres X	>5 acres Adja	acent allia	nces:	
If Tree, list 1-3 do	minant overstory spp	.:		>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T5. dead), <u>S4</u> decadent (>25% dead)	, >60% cover)
If Tree, list 1-3 do Shrub: <u>S1</u> seedlin Herbaceous: <u>H1</u> (Desert Riparian T % Overstory Con	minant overstory spp g (<3 yr. old), €2 oun <12" plant ht.). <u>H2</u> (>1 Cree/Shrub: <u>I</u> (<2ft. ste ifer/Hardwood Tree c	g (<1% dead), <u>S3</u> m 2" ht.) Deser m ht.), <u>2</u> (2-10ft. ht.	ature (1-25% † Palm/Josh), 3 (10-20) Shrub cov	dead), <u>S4</u> decadent (>25% dead) nua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h.h.), 4 (>20h.hr.) er: /O Ø Herbaceous cover: 25 Total Veg co	(>6" diam.)
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H:	minant overstory spp g (<3 yr. old), 62 oun <12" plant ht.). H2 (>1 Cree/Shrub: 1 (<2ft. ste ifer/Hardwood Tree cardwood height:	g (<1% dead), <u>S3</u> m 2" ht) <u>Deser</u> em ht.), <u>2</u> (2-10ft. ht. cover:/ / Tall Shr	t Palm/Josh), 3 (10-20) Shrub cov	o dead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 th.h.), 4 (>20ft. ht.) er: 100 Herbaceous cover: 25 Total Veg co rub height: 1/2/1 M Herbaceous height: 1/2/2 M	(>6" diam.)
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Com Modal Conifer/H: Species (List up to	minant overstory spp g (<3 yr. old), 62 oun <12" plant ht.), H2 (>1 Cree/Shrub: 1 (<2ft. ste ifer/Hardwood Tree c ardwood height: 12 major species), St	g (<1% dead), S3 m 2" ht.) Deser m ht.), 2 (2-10fl. ht. cover:/ Tall Shr tratum, and Appro	t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr	ua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (h.ht.), 4 (>20fl. ht.) er: 100 Herbaceous cover: 25 Total Veg corub height: 1/m Herbaceous height: 1/m over: (Jepson Manual nomenclature please)	(>6" diam.)
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Com Modal Conifer/H: Species (List up to	minant overstory spp g (<3 yr. old), 62 oun <12" plant ht.), H2 (>1 Cree/Shrub: 1 (<2ft. ste ifer/Hardwood Tree c ardwood height: 12 major species), St	: g (<1% dead), S3 m 2" ht.) Deser :m ht.), 2 (2-10ft ht. :over: / / Tall Shr tratum, and Appro-	t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shrubate % c	odead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 th.h.), 4 (>20fh.hr.) er: 100 Herbaceous cover: 25 Total Veg co rub height: 1/m/1 Herbaceous height: 1 over: (Jepson Manual nomenclature please) rence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%,	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species	minant overstory spp g (<3 yr. old), 62 oun <12" plant ht.), H2 (>1 Cree/Shrub: 1 (<2ft. ste ifer/Hardwood Tree c ardwood height: 12 major species), St	: g (<1% dead), S3 m 2" ht.) Deser :m ht.), 2 (2-10ft ht. :over: / / Tall Shr tratum, and Appro-	t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shrubate % c	dead), S4 decadent (>25% dead) nua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h.b.), 4 (>20fl. bt.) rub height: 4 m/ 1 m Herbaceous height: 0 over (Lepson Manual nomenclature please) over (1.5%, 1.5%, >5-15%, >15-25%, >25-50%, >50- and Species	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Species): Strata categories: Strata Species	minant overstory spp g (<3 yr. old), 22 oun <12" plant ht.). H2 (>1 Tree/Shrub: 1 (<2ft. ste iffer/Hardwood Tree c ardwood height: 12 major species), St T-tall, M-medium, L-	g (<1% dead), \$\frac{\sigma}{2}\$ th.) Deser th bt.), \$\frac{2}{2}\$ (2-10ft, bt.) bever: \$\frac{1}{2}\$ Tall Shr tratum, and Approblem: % cover inter \$\frac{1}{2}\$.	t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr ximate % c	odead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 th.h.), 4 (>20fh.hr.) er: 100 Herbaceous cover: 25 Total Veg co rub height: 1/m/1 Herbaceous height: 1 over: (Jepson Manual nomenclature please) rence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%,	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species \(\)	minant overstory spp g (<3 yr. old), 22 oun <12" plant ht.). H2 (>1 Tree/Shrub: 1 (<2ft. ste ifer/Hardwood Tree c ardwood height: 12 major species), St T-tall, M-medium, L-	g (<1% dead), \$\frac{\sigma}{2}\$ th.) Deser thin th.), \$\frac{2}{2}\$ (2-10ft. ht.) bover: \$\frac{1}{2}\$ Tall Shr tratum, and Approblew: % cover inter \$\frac{\sigma}{2}\$.	t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr ximate % c vals for refe cover Str	dead), S4 decadent (>25% dead) nua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h.b.), 4 (>20fl. bt.) rub height: 4 m/ 1 m Herbaceous height: 0 over (Lepson Manual nomenclature please) over (1.5%, 1.5%, >5-15%, >15-25%, >25-50%, >50- and Species	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: S1 seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strafa categories: Strafa Categories: Strafa (List up to List up to Strafa (List up to List up to List up to Modal Conifer/H: Modal Co	minant overstory spp g (<3 yr. old). 22 oun <12" plant ht.). H2 (>1 Tree/Shrub: 1 (<2ft. ste ifer/Hardwood Tree c ardwood height: 12 major species), St T-tall, M-medium, L- integritation 12 ft. ft. file 14 can be file 15 can be file 16 can be fil	g (<1% dead), \$\frac{\sigma}{2}\$ th.) Deser thin th.), \$\frac{2}{2}\$ (2-10ft.ht.) bever: \$\frac{1}{2}\$ Tall Shr tratum, and Approclow: % cover inter \$\frac{1}{2}\$ \$\frac{1}{2}\$.	t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr ximate % c vals for refe cover Str 5-50 M	dead), S4 decadent (>25% dead) nua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h.b.), 4 (>20fl. bt.) rub height: 4 m/ 1 m Herbaceous height: 0 over (Lepson Manual nomenclature please) over (1.5%, 1.5%, >5-15%, >15-25%, >25-50%, >50- and Species	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: Trata Species M Ademic M Modula	minant overstory spp g (<3 yr. old). 22 oun <12" plant ht.). H2 (>1 "ree/Shrub: I (<2ft. ste ifer/Hardwood Tree c ardwood height: 12 major species), St T-tall, M-medium, L- integrifulia in Califurnica	g (<1% dead), \$\frac{\sigma}{2}\$ th.) Deser the bt.), \$\frac{2}{2}\$ (2-10ft. bt.) bever: \$\frac{1}{2}\$ Tall Shr tratum, and Approblem: % cover interest \$\frac{1}{2}\$ \$\fr	t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr ximate % c rvals for refe cover Str 5-50 /	dead), S4 decadent (>25% dead) nua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h.b.), 4 (>20fl. bt.) rub height: 4 m/ 1 m Herbaceous height: 0 over (Lepson Manual nomenclature please) over (1.5%, 1.5%, >5-15%, >15-25%, >25-50%, >50- and Species	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: First Species M Modulation M Modulation T Majosy M Sajuja	minant overstory spp g (<3 yr. old). 62 Joun <12" plant ht.). H2 (>1 Tree/Shrub: I (<2ft. ste ifer/Hardwood Tree c ardwood height: 12 major species), St T-tall, M-medium, L- integrifolia ia Californica flower eleg heteroneles a lawrina mellifern	g (<1% dead), \$\frac{\sigma}{2}\$ th.) Deser thin th.), \$\frac{2}{2}\$ (2-10ft.ht.) cover: \$\frac{1}{2}\$ Tall Shr tratum, and Approclew: \$\frac{1}{2}\$ cover intering \$\frac{1}{2}\$.	t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr ximate % c cover Str 5-50 M 5-5	a dead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. ht.), 4 (>20fl. ht.) er: 100 Herbaceous cover: 25 Total Veg corub height: 1/m/ Herbaceous height: 25 over: (Jepson Manual nomenclature please) erence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-3 atal Species In Cellia (a) Furnica	(>6" diam.)
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: Frata Species M Modulation M Modulation T Majosy M Sajuja	minant overstory spp g (<3 yr. old). 62 Joun <12" plant ht.). H2 (>1 Tree/Shrub: I (<2ft. ste ifter/Hardwood Tree c ardwood height: 12 major species), St T-tall, M-medium, L- integrifulia in (a) ifvinica flower less hoke oncles	g (<1% dead), \$\frac{\sigma}{2}\$ th.) Deser thin th.), \$\frac{2}{2}\$ (2-10ft.ht.) cover: \$\frac{1}{2}\$ Tall Shr tratum, and Approclew: \$\frac{1}{2}\$ cover intering \$\frac{1}{2}\$.	t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr ximate % c cover Str 5-50 M 5-5	a dead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. ht.), 4 (>20fl. ht.) er: 100 Herbaceous cover: 25 Total Veg corub height: 1/m/ Herbaceous height: 25 over: (Jepson Manual nomenclature please) erence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-3 atal Species In Cellia (a) Furnica	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Modules M M M M M M M M M M M M M M M M M M M	minant overstory spp g (<3 yr. old). \$220un <12" plant ht.). \$12 (<1 tree cardwood height: 12 major species). \$1 Tetall, M=medium, L= 10 tree cardwood height: 10 tree cardwood height: 11 major species). \$1 Tetall, M=medium, L= 10 tree cardwood height: 12 major species (*10 in tree cardwood height: 13 tree cardwood height: 14 tree cardwood height: 15 tree cardwood height: 16 tree cardwood height: 17 tree cardwood height: 18 tree cardwood height: 18 tree cardwood height: 19 tree cardwood height: 19 tree cardwood height: 19 tree cardwood height: 10 tree cardwood height: 11 tree cardwood height: 12 tree cardwood height: 13 tree cardwood height: 14 tree cardwood height: 15 tree cardwood height: 16 tree cardwood height: 17 tree cardwood height: 18 tree cardwood height: 18 tree cardwood height: 19 tree cardwood height: 10 tree cardwood height: 11 tree cardwood height: 12 tree cardwood height: 12 tree cardwood height: 13 tree cardwood height: 14 tree cardwood height: 15 tree cardwood height: 16 tree cardwood height: 17 tree cardwood height: 18 tree cardwood heigh	g (<1% dead), \$\frac{\sigma}{2}\$ th.) Deser thin th.), \$\frac{2}{2}\$ (2-10ft.ht.) cover: \$\frac{1}{2}\$ Tall Shr tratum, and Approclew: \$\frac{1}{2}\$ cover intering \$\frac{1}{2}\$.	t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr ximate % c cover Str 5-50 M 5-5	a dead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. ht.), 4 (>20fl. ht.) er: 100 Herbaceous cover: 25 Total Veg corub height: 1/m/ Herbaceous height: 25 over: (Jepson Manual nomenclature please) erence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-3 atal Species In Cellia (a) Furnica	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Ademic M Mod Key M M M M M M M M M M M M M M M M M M M	minant overstory spp g (<3 yr. old).	:: g (<1% dead), \$\frac{53}{2}\$ m 2" ht)	t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr ximate % c cover Str 5-50 M 5-5	a dead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. ht.), 4 (>20fl. ht.) er: 100 Herbaceous cover: 25 Total Veg corub height: 1/m/ Herbaceous height: 25 over: (Jepson Manual nomenclature please) erence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-3 atal Species In Cellia (a) Furnica	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M	minant overstory spp g (<3 yr. old).	:: g (<1% dead), \$\frac{53}{2}\$ m 2" ht)	ature (1-25% t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr vimate % c cover Str 5-50 M 5-50 M 5-50 M 5-50 M 6-60 Shrub cov	a dead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. ht.), 4 (>20fl. ht.) er: 100 Herbaceous cover: 25 Total Veg corub height: 1/m/ Herbaceous height: 25 over: (Jepson Manual nomenclature please) erence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-3 atal Species In Cellia (a) Furnica	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Modules M M M M M M M M M M M M M M M M M M M	minant overstory spp g (<3 yr. old).	g (<1% dead), \$\frac{53}{2}\$ mg (*1% dead), \$\frac{53}{2}\$ mt). Desermbl., \$\frac{2}{2}\$ (2-10ft, ht. rover:/ Tall Shr tratum, and Approblem: % cover inter \$\frac{9}{2}\$. 24	ature (1-25% t Palm/Josh t Palm/Josh), 3 (10-20) Shrub cov ub/Low Shr vimate % c cover Str 5-50 M 5-50 M 5-50 M 5-50 M 6-60 Shrub cov	a dead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. ht.), 4 (>20fl. ht.) er: 100 Herbaceous cover: 25 Total Veg corub height: 1/m/ Herbaceous height: 25 over: (Jepson Manual nomenclature please) erence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-3 atal Species In Cellia (a) Furnica	(<>6" diam.) wer:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M	minant overstory spp g (<3 yr. old).	g (<1% dead), \$\frac{53}{2}\$ mg (*1% dead), \$\frac{53}{2}\$ mt). Desermbl, \$\frac{2}{2}\$ (2-10ft, ht. rover:// Tall Shr tratum, and Approblem: % cover inter \$\frac{96}{2}\$ \$\frac{96}{2}\$ \$\frac{1}{2}\$	ature (1-25% t Palm/Josh t Palm/Josh), 3 (10-20 Shrub cov ub/Low Shrub cov ub/Low Shrub cov ub/Low Shrub	adead), S4 decadent (>25% dead) nua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. h.t.), 4 (>20ft. hr.) er: 100 Herbaceous cover: 25 Total Veg co rub height: 1/m/ 1 Herbaceous height: over: (Jepson Manual nomenclature please) rence: (1%, 1-5%, >5-15%, >15-25%, >25-50%, >50- atal Species Ence in Californica	(>6" diam.) over:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: Trata Species M Modules M Modules M Modules M Modules M Modules M Modules Confidence in ide Other identificati	minant overstory spp g (<3 yr. old).	g (<1% dead), \$\frac{53}{2}\$ mg (*1% dead), \$\frac{53}{2}\$ mt). Desermbl, \$\frac{2}{2}\$ (2-10ft, ht. rover:// Tall Shr tratum, and Approblem: % cover inter \$\frac{96}{2}\$ \$\frac{96}{2}\$ \$\frac{1}{2}\$	ature (1-25% t Palm/Josh t Palm/Josh), 3 (10-20 Shrub cov ub/Low Shrub cov ub/Low Shrub cov ub/Low Shrub	a dead), S4 decadent (>25% dead) una Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. ht.), 4 (>20fl. ht.) er: 100 Herbaceous cover: 25 Total Veg corub height: 1/m/ Herbaceous height: 25 over: (Jepson Manual nomenclature please) erence: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-3 atal Species In Cellia (a) Furnica	(>6" diam.) over:
If Tree, list 1-3 do Shrub: SI seedlin Herbaceous: H1 (Desert Riparian T % Overstory Con Modal Conifer/H: Species (List up to Strata categories: trata Species M Artemis M Modules M Modules M Modules M Major non-native Unusual species: PROBLEMS WI Confidence in ide Other identificati	minant overstory spp g (<3 yr. old).	g (<1% dead), \$\frac{53}{2}\$ mg (*1% dead), \$\frac{53}{2}\$ mt). Desermbl, \$\frac{2}{2}\$ (2-10ft, ht. rover:// Tall Shr tratum, and Approblem: % cover inter \$\frac{96}{2}\$ \$\frac{96}{2}\$ \$\frac{1}{2}\$	ature (1-25% t Palm/Josh t Palm/Josh), 3 (10-20 Shrub cov ub/Low Shrub cov ub/Low Shrub cov ub/Low Shrub	adead), S4 decadent (>25% dead) nua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 h. h.t.), 4 (>20ft. hr.) er: 100 Herbaceous cover: 25 Total Veg co rub height: 1/m/ 1 Herbaceous height: over: (Jepson Manual nomenclature please) rence: (1%, 1-5%, >5-15%, >15-25%, >25-50%, >50- atal Species Ence in Californica	(>6" diam.) over:

For Office Use:	Final database #:	Final vegetation name:	type	Allia	iztion
LOCATIONAL/E	NVIRONMENTAL I			140304	Milot
Polygon/Stand #:	Air photo #:	Date:	Name	e(s) of s	ırveyors:
GPS waypoint #:	GPS nam	e:	GP	S datu	n: (NAD 27) Is GPS within stand? Yes / No
				nd cent	er: ft/m
UTM field reading	g: UTME		UTM	N	UTM zone:
Elevation:	ft/m Photogra	ph #'s:			
Topography: flat_	concave	convex undu	lating	× b	ottom× lower× mid× upper× top×
					Rock % Small Rock % Bare/Fines
					SWNW_XFlatVariable_
					> 25° Upland or Wetland/Riparian (circle one)
					betat, probably 50+ yes old
Type / level of dist	urbance (use codes):				
VEGETATION D	ESCRIPTION				
Field-assessed veg	etation alliance name	: Diegan	Co	astal	Sage Scrub
Field-assessed asse	ociation name (optiona	al):			3
Size of stand: <1 a	icre 1-5 acresX	>5 acres Adj	acent a	lliance	s:
				_	
Herbaceous: H1 (Desert Riparian T % Overstory Con	<12" plant ht.), <u>H2</u> (>1 "ree/Shrub: <u>1</u> (<2ft. ste ifer/Hardwood Tree of	2" ht.) Deser em ht.), 2 (2-10ft. ht.	t Paim/), <u>3</u> (1 Shrub	Joshua 0-20ft. h	d), \$\frac{84}{2}\$ decadent (>25% dead) Tree: \frac{1}{2}\$ (<1.5" base diameter), \$\frac{2}{2}\$ (1.5-6" diam.), \$\frac{3}{2}\$ (>6" diam.) 1.), \$\frac{4}{2}\$ (>20ft. ht.) The Herbaceous cover: \$\int 2 \text{ Total Veg cover: }\int 2 \text{ height: } \frac{3}{2}\$ height: \$\frac{1}{2}\$ \text{ In the Figure 1.5 ft.}
					r: (Jepson Manual nomenclature please)
					ce: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%
Strata Species	a Californica	%	cover		Species 9% cove
M Facellis	Californica	2	50		
	integrifolia		25	+	
	view Gate fase	, ,	-5		
. A/	pulchun		5		
	1				
Major non-native	species (with % cove	r): Brassi	inr	ligra	2 v
	0 H' (-	\	1	1.	11.
			7020	1 4101	orcutti; - planted by CNLM
	TH INTERPRETATI				
	ntification: (L, M, H)				
	on problems (describe				
	han one type: (Yes, N	o) (Note	type w	ith grea	test coverage in polygon should be entered in above section)
Other types:					
Has the vegetation	n changed since air pl	noto taken? (Yes, I	No)		Yes, how? What has changed (write N/A if so)?

For Office Use:	Final database #:	Final vegetation	type	Allia	istion
LOCATIONAL/E	NVIRONMENTAL I				
Polygon/Stand #:	Air photo #:	Date:	Name	e(s) of s	urveyors:
					n: (NAD 27) Is GPS within stand? Yes / No
If No cite distance	(note ft/m), bearing a	nd view from poir	nt to sta	nd cent	er: Error: ± ft/m
UTM field reading	g: UTME		UTM	N	UTM zone:
	ft/m Photogra				
					ottomlowermiduppertop Rock% Small Rock% Bare/Fines
					SWNWFlatVariable
					>25° Upland or Wetland/Riparian (circle one)
	age, and comments:				Opinio of Welland (case one)
Site mistory, stand	age, and comments.				
Type / level of dist	turbance (use codes):				
VEGETATION D	ESCRIPTION				
Field-assessed veg	etation alliance name	: mule-fat	Ser	26	
	ociation name (optiona				
Size of stand: <1 a	icre 1-5 acres	>5 acres Adi	acent a	lliance	S:
				_	
If Tree, list 1-3 do	minant overstory spp	.: Salir	SPP		4" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover)
					ad), <u>S4</u> decadent (>25% dead)
					Tree: $\underline{1}$ (<1.5" base diameter), $\underline{2}$ (1.5-6" diam.), $\underline{3}$ (>6" diam.)
	ree/Shrub: 1 (<2ft. ste				
% Overstory Con	iter/Hardwood Tree o	over:/	Shrub	cover:	25 Herbaceous cover: 75 Total Veg cover: 75 height: 3 m / /m Herbaceous height: 60.5 m
					r: (Jepson Manual nomenclature please) ce: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%
	xis salicifoli	%	cover		Species 9% cover
			2-22		
) >alix	550	2	-15	+	
			-		
Major non-native	species (with % cove	r):			
Unusual species:					
PROBLEMS WI'	TH INTERPRETATI	ON			
Confidence in ide	ntification: (L, M, H)	H Explain			
	on problems (describe				
	han one type: (Yes N	(Note	type w	ith grea	test coverage in polygon should be entered in above section)
Other types:	1 41 -				
mas the vegetatio	n changed since air pl	noto taken? (Yes,	No)	1	Yes, how? What has changed (write N/A if so)?

For Office Use:	Final database #:	Final vegetation	n type	Alliance
LOCATIONAL/F	NVIRONMENTAL I	name:		Association
Polygon/Stand #:		Date:	Name	e(s) of surveyors:
GPS waypoint #:	GPS nam	ne:	GF	S datum: (NAD 27) Is GPS within stand? Yes / No
If No cite distance	(note ft/m), bearing a	and view from po	int to sta	nd center: ft/m
UTM field reading	UTME		UTM	N UTM zone:
	ft/m Photogra			
Topography: flat_	concave	convex unc	lulating	bottom lower mid upper top
				Large Rock % Small Rock % Bare/Fines
Slope exposure (cir	rcle one and/or enter ac	ctual °): NE	SI	SW NW Flat_ Variable
Slope steepness (ci	rele one and enter actu	al °): 0° 1-5°	5-	25° > 25° Upland or Wetland/Riparian (circle one)
				by thing roads, non-nature specier
Type / level of dist	urbance (use codes):			
VEGETATION D				
Field-assessed veg	etation alliance name	: Disaa	4 (00	stal sage sonb
	ociation name (optiona			2131 2 6
			jacent a	lliances:
Shrub: S1 seedling Herbaceous: ATO Desert Riparian T % Overstory Coni	<12" plant ht.), <u>H2</u> (>1, ree/Shrub: <u>1</u> (<2ff. ste fer/Hardwood Tree c	g (<1% dead), <u>S3</u> 2" ht.) Desc m ht.), <u>2</u> (2-10ft.) over: /	ert Palm/. nt.), <u>3</u> (10	25% dead), S4 decadent (>25% dead) Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.) 0-20fl. ht.), 4 (>20fl. ht.) cover: 20 Herbaceous cover: Total Veg cover: Shrub height: Herbaceous height:
				% cover: (Jepson Manual nomenclature please)
			6 cover	reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75% Strata Species % cover
IVI Artemison	cul-fornica		5-25	70 COVE
	steps folia		-5	
M Erispone	n fasciculation	M 5	5-15	
		-	-	
Major non-native	species (with % cover): Brassi	ca n	357 2570
Unusual species: _				
PROBLEMS WIT	H INTERPRETATION	ON		
Confidence in iden	tification: (L, M, H)	IF Explain		
	n problems (describe			
			e: type wi	th greatest coverage in polygon should be entered in above section)
Other types:	., .		on twomen 182	be the period of chicken in above section)
	changed since air nh	oto taken? (Vac	Sim	If Yes, how? What has changed (write N/A if so)?
		unch. (105,		in 1.63, now: What has changed (Write N/A it so)?

	Final database #:	Final vegetati	on type	Allia	ice				
LOCATIONAL/	ENVIRONMENTAL I	DESCRIPTION							
Polygon/Stand #:	Air photo #:	Date:	Name	e(s) of s	irveyors:				
GPS waypoint #:	GPS nan	ne:	GF	S datu	n: (NAD 27)		Is GPS w	ithin stan	d? Yes / No
	e (note ft/m), bearing								
	ng: UTME							I zone:	
	ft/m Photogra								
	concave								
	Soil Text								
	circle one and/or enter a								
	circle one and enter actu								
Site history, stan	dage, and comments:	at this	time	lopes	as par	t of de	nephon	t, mo	s+4
T									
VEGETATION	sturbance (use codes):								
	getation alliance name	Oat	Λ:	• 100 / 100	c 1.1		- L		
	sociation name (option		3 010	GOVA	ORSTA	Sage s	crop		
	acre 1-5 acres 🔀		diacent a	lliance	s:				
			.,						
T	11 700 on min TT3			70.5	= 0				
			-24" dbh),	T5 (>2	"dbh), <u>T6</u> n	nulti-layered	1 (T3 or T4	layer under	T5, >60% cover
If Tree, list 1-3 d	ominant overstory spp).:						layer under	T5, >60% cover
If Tree, list 1-3 d Shrub: S1 seedli	ominant overstory spp ng (<3 yr. old), <u>S2</u> your	ng (<1% dead), <u>\$3</u>	mature (1	-25% de	ad), <u>S4</u> deca	dent (>25% c	lead)		
If Tree, list 1-3 d Shrub: <u>S1</u> seedli Herbaceous: <u>H1</u>	ominant overstory spp ng (<3 yr. old), <u>S2</u> your (<12" plant ht.), <u>H2</u> (>1	ng (<1% dead), <u>\$3</u>	mature (1	-25% de Joshua	nd), <u>S4</u> decade	dent (>25% o	lead)		
If Tree, list 1-3 d Shrub: <u>S1</u> seedli Herbaceous: <u>H1</u> Desert Riparian	ominant overstory spp ng (<3 yr. old), <u>S2</u> your (<12" plant ht.), <u>H2</u> (>1 Tree/Shrub: <u>1</u> (<2ft, ste	ng (<1% dead), <u>\$3</u> 12" ht.) De s em ht.), <u>2</u> (2-10ft.	mature (1 sert Palm/ ht.), 3 (1	-25% de Joshua 0-20ft. h	nd), <u>S4</u> decade Tree: <u>1</u> (<1.	dent (>25% of 5" base diamonth.)	dead)	5-6" diam.),	3 (>6" diam.)
If Tree, list 1-3 d Shrub: <u>S1</u> seedli Herbaceous: <u>H1</u> Desert Riparian % Overstory Co	ominant overstory spp ng (<3 yr. old), <u>S2</u> your (<12" plant ht.), <u>H2</u> (>1 Tree/Shrub: <u>1</u> (<2ft, stenifer/Hardwood Tree	ng (<1% dead), <u>S3</u> (2" ht.) De sem ht.), <u>2</u> (2-10ft.	mature (1 sert Palm/ ht.), 3 (1 Shrub	-25% de Joshua 0-20fl. h	nd), <u>S4</u> decar Tree: <u>1</u> (<1), <u>4</u> (>20ft. Herb	dent (>25% of 5" base diame ht.)	dead) eter), <u>2</u> (1	5-6" diam.), Total Veg	3 (>6" diam.)
If Tree, list 1-3 d Shrub: S1 seedli Herbaccous: H1 Desert Riparian % Overstory Co Modal Conifer/k	ominant overstory spp ng (<3 yr. old), S2 your (<12" plant ht.), H2 (>1 Tree/Shrub: 1 (<2ft. st nifer/Hardwood Tree lardwood height:	o.:	mature (1 sert Palm/ ht.), 3 (1 Shrub/Lov	-25% de Joshua 0-20ft h cover: v Shrub	Tree: 1 (<1), 4 (>20ft. Herb	dent (>25% of the control of the con	dead) eter), 2 (1 er:	5-6" diam.), Total Veg	3 (>6" diam.)
If Tree, list 1-3 d Shrub: S1 seedli Herbaccous: H1 Desert Riparian % Overstory Co Modal Conifer/k Species (List up	ominant overstory spp ng (<3 yr. old), \$\frac{S2}{2}\$ your (<12" plant ht.), \$\frac{H2}{2}\$ (>1) Tree/Shrub: \$\frac{1}{2}\$ (<2ft. st nifer/Hardwood Tree of Lardwood height: to 12 major species), \$\frac{S}{2}\$	(<1% dead), S3	mature (1 sert Palm/ ht.), 3 (1 Shrub/Low	-25% de Joshua 0-20ft. h o cover: v Shrub % cove	nd), <u>S4</u> decar Tree: <u>1</u> (<1. .), <u>4</u> (>20ft. Herb height:	dent (>25% of 5" base diams ht.) accous cove	dead) eter), 2 (1 er: Herbacec	5-6" diam.), Total Veg ous height:	3 (>6" diam.)
If Tree, list 1-3 d Shrub: S1 seedli Herbaceous: H1 Desert Riparian % Overstory Co Modal Conifer/E Species (List up Strata categories	ominant overstory spp ng (<3 yr. old), S2 your (<12" plant ht.), H2 (>1 Tree/Shrub: 1 (<2ft. st nifer/Hardwood Tree lardwood height:	(<1% dead), S2	mature (1 sert Palm/ ht.), 3 (1 Shrub/Low	-25% de Joshua 0-20ft. h o cover: v Shrub % cove	nd), <u>S4</u> decar Tree: <u>1</u> (<1. .), <u>4</u> (>20ft. Herb height: r: (Jepson M	dent (>25% of 5" base diams ht.) accous cove	dead) eter), 2 (1 er: Herbacec	5-6" diam.), Total Veg ous height:	3 (>6" diam.) cover:
If Tree, list 1-3 d Shrub: S1 seedli Herbaceous: H1 Desert Riparian % Overstory Co Modal Conifer/E Species (List up Strata categories	ominant overstory spp ng (<3 yr. old), \$\frac{S2}{2}\$ your (<12" plant ht.), \$\frac{H2}{2}\$ (>1) Tree/Shrub: \$\frac{1}{2}\$ (<2ft. st nifer/Hardwood Tree of Lardwood height: to 12 major species), \$\frac{S}{2}\$	(<1% dead), S2	ht.), 3 (1 Shrub Shrub/Lov roximate	-25% de Joshua 0-20ft. h o cover: v Shrub % cove	nd), <u>S4</u> decar Tree: <u>1</u> (<1. .), <u>4</u> (>20ft. Herb height:	dent (>25% of 5" base diams ht.) accous cove	dead) eter), 2 (1 er: Herbacec	5-6" diam.), Total Veg ous height:	3 (>6" diam.)
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If Tree, list 1-3 d Shrub: S1 seedli Herbaceous: H1 Desert Riparian % Overstory Co Modal Conifer/E Species (List up Strata categories	ominant overstory spp ng (<3 yr. old), \$\frac{S2}{2}\$ your (<12" plant ht.), \$\frac{H2}{2}\$ (>1) Tree/Shrub: \$\frac{1}{2}\$ (<2ft. st nifer/Hardwood Tree of Lardwood height: to 12 major species), \$\frac{S}{2}\$	(<1% dead), S2	ht.), 3 (1 Shrub Shrub/Lov roximate	-25% de Joshua 0-20ft. h o cover: v Shrub % cove	nd), <u>S4</u> decar Tree: <u>1</u> (<1. .), <u>4</u> (>20ft. Herb height: r: (Jepson M	dent (>25% of 5" base diams ht.) accous cove	dead) eter), 2 (1 er: Herbacec	5-6" diam.), Total Veg ous height:	3 (>6" diam.) cover:
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If Tree, list 1-3 d Shrub: S1 seedli Herbaceous: H1 Desert Riparian % Overstory Co Modal Conifer/k Species (List up Strata categories trata Species	ominant overstory spp ng (<3 yr. old), \$\frac{S2}{2}\$ your (<12" plant ht.), \$\frac{H2}{2}\$ (>1) Tree/Shrub: \$\frac{1}{2}\$ (<2ft. st nifer/Hardwood Tree of Lardwood height: to 12 major species), \$\frac{S}{2}\$	n: ng (<1% dead), S2 12" ht.) Des em ht.), 2 (2-10ft. cover:/ Tall S tratum, and App elow: % cover in	mature (1 sert Palm/ht.), 3 (1 Shrub/Loveroximate atervals for % cover	-25% de Joshua 0-20ft. h o cover: v Shrub % cove	nd), <u>S4</u> decar Tree: <u>1</u> (<1. .), <u>4</u> (>20ft. Herb height: r: (Jepson M	dent (>25% of 5" base diams ht.) accous cove	dead) eter), 2 (1 er: Herbacec	5-6" diam.), Total Veg ous height:	3 (>6" diam.) cover:
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